

SECTION 09 2913
GYPSUM ROOF BOARD

LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Architectural POC.

When assembling a specification package, include applicable specifications from all divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 / ML-4 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 – GENERAL

1.1 DESCRIPTION

A. Work in this section includes, but is not limited to:

1. Thermal barrier.
2. Roofing protection board.
3. Roof insulation protection board.
4. Formboard for gypsum concrete.
5. Re-cover board.

B. Related work specified elsewhere:

1. Roof insulation.
2. Roof membrane.

1.2 SUBMITTALS

A. Product data: Submit manufacturer's descriptive literature indicating material composition, thickness, sizes and fire resistance.

- B. Shop drawings: Submit shop drawings indicating fastener and adhesive patterns for Factory Mutual Engineering & Research Corporation (FMERC) wind uplift resistance specified.
- C. Certification: Submit manufacturer's written certification that product meets fire-resistance requirements.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver materials to the job site in manufacturer's original packaging, containers and bundles with manufacturer's brand name and identification intact and legible.
- B. Storage and handling: Roof board must be kept dry before, during and after application. Outside storage must be off ground and protected by a breathable waterproof covering. If roof board becomes wet, it must be dried before installation. Roof board must be roofed the same day it is installed.
- C. Consult membrane manufacturer for specific installation instructions and standards for good roofing practices.

1.4 LIMITATIONS

- A. Panels must be kept dry before, during and after installation. Apply only as much roof board as can be covered by a roof membrane system in the same day.
- B. When applying solvent-based adhesives or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components.
- C. Consult membrane manufacturer for specific system installation needs.

PART 2 – PRODUCTS

2.1 GYPSUM ROOF BOARD

- A. Dens-Deck (Or Equal)
 - 1. Acceptable product: G-P Gypsum Corporation Dens-Deck roof board, acceptable to membrane manufacturer.
 - 2. Composition: Nonstructural, glass mat faced gypsum panel with water-resistant core.
 - 3. Size: Nominal 4' x 8'.
 - 4. Thickness: ½".

2.2 MISCELLANEOUS MATERIALS

- A. Adhesives: As recommended by roof system manufacturer

PART 3 – EXECUTION

3.1 GENERAL

- A. Provide roof board where indicated on drawings using adhesive system specified.
- B. Accumulation of water due to leaks or condensation in or on roof board must be avoided during construction and after construction. Avoid overuse of non-vented, direct-fired heaters during winter months. Avoid application of roof board during rain, heavy fogs and other conditions that may deposit moisture on the surface.

3.2 GYPSUM ROOF BOARD INSTALLATION

- A. Adhered Systems: Single component elastomeric, low rise urethane foam adhesive that contains no solvents as recommended by roof system and adhesive manufacturers.
- B. Wind uplift/FMERC compliance for adhered attachment to achieve accordance with J.I. 1N2A6.AM of FMRC Standard 4450 for FM I-90. Refer to membrane manufacturer's system recommendations.

END OF SECTION

Do not delete the following reference information.

FOR LANL USE ONLY

This project specification is based on LANL Master Specification Rev. 0, dated February 24, 2006.